

Experiment Number: 60311 - 01
Test Type: 14-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Cobalt
CAS Number: 7440-48-4

Date Report Requested: 09/13/2016
Time Report Requested: 11:25:33
First Dose M/F: 08/02/04 / 08/02/04
Lab: BNW

NTP Study Number: C60311
Lock Date: 11/29/2005
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: NONE

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 Lab: BNW

FISCHER 344 RATS MALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		6	6	6	6	6	
CONTROL	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		1	2	3	4	5	
							* TOTALS

ALIMENTARY SYSTEM

Liver + + + + + 5

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Thyroid Gland + + + + + 5

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node, Mediastinal + + 2

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue
 X .. Lesion present A .. Autolysis precludes evaluation
 I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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FISCHER 344 RATS MALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		6	6	6	6	6	
	CONTROL						
ANIMAL ID		0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		1	2	3	4	5	
							* TOTALS

NERVOUS SYSTEM

Brain + + + + + 5

RESPIRATORY SYSTEM

Lung + + + + + 5

Nose + + + + + 5

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney + + + + + 5

Urinary Bladder + + + + + 5

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FISCHER 344 RATS MALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		6	6	6	6	6	
2.5 MG/M3	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		2	2	2	2	2	
		0	0	0	0	0	
		1	2	3	4	5	
* TOTALS							

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

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FISCHER 344 RATS MALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		6	6	6	6	6	
		0	0	0	0	0	
2.5 MG/M3	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		2	2	2	2	2	
		0	0	0	0	0	
		1	2	3	4	5	

* TOTALS

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	5	
Bronchiole, Epithelium, Vacuolization Cytoplasmic	1	1	2	1	1		5 1.2
Nose	+	+	+	+	+	5	
Inflammation, Acute				1			1 1.0
Olfactory Epithelium, Atrophy	1	1	2	2	2		5 1.6
Olfactory Epithelium, Necrosis	1		1	1			3 1.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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 + .. Tissue examined microscopically
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 Lab: BNW

FISCHER 344 RATS MALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		6	6	6	6	6	
5 MG/M3	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		4	4	4	4	4	
		0	0	0	0	0	
		1	2	3	4	5	
* TOTALS							

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

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		0	0	0	0	0	
		1	1	1	1	1	
		6	6	6	6	6	
		0	0	0	0	0	
5 MG/M3	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		4	4	4	4	4	
		0	0	0	0	0	
		1	2	3	4	5	

* TOTALS

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	5		
Alveolus, Infiltration Cellular, Histiocyte	1	1	1		1		4	1.0
Bronchiole, Epithelium, Vacuolization Cytoplasmic	1	1	2	2	2		5	1.6
Nose	+	+	+	+	+	5		
Olfactory Epithelium, Atrophy	2	2	2	1	2		5	1.8
Olfactory Epithelium, Necrosis	1		1	2	1		4	1.3

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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FISCHER 344 RATS MALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		6	6	6	6	6	
10 MG/M3	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		6	6	6	6	6	
		0	0	0	0	0	
		1	2	3	4	5	
* TOTALS							

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node, Mediastinal

+

+

2

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

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FISCHER 344 RATS MALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		6	6	6	6	6	
		0	0	0	0	0	
10 MG/M3	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		6	6	6	6	6	
		0	0	0	0	0	
		1	2	3	4	5	
							* TOTALS

NERVOUS SYSTEM

Brain	+	+	+	+	+		5
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RESPIRATORY SYSTEM

Lung	+	+	+	+	+		5	
Hemorrhage						1		1 1.0
Alveolus, Infiltration Cellular, Histiocyte	2	1				1		3 1.3
Bronchiole, Epithelium, Vacuolization Cytoplasmic	2	2	2	2	2			5 2.0
Interstitial, Fibrosis	1	1	2	1	1			5 1.2
Nose	+	+	+	+	+		5	
Foreign Body					X			1
Inflammation, Acute						1		1 1.0
Olfactory Epithelium, Atrophy	3	3	2	2	2			5 2.4
Olfactory Epithelium, Necrosis		1	1	1	1			4 1.0
Respiratory Epithelium, Metaplasia, Squamous						1		1 1.0
Respiratory Epithelium, Necrosis						1		1 1.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Urinary Bladder	+	+	+	+	+		5
-----------------	---	---	---	---	---	--	----------

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		0	0	0	0	0	
FISCHER 344 RATS MALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	1	
		5	5	9	5	3	
20 MG/M3	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		8	8	8	8	8	
		0	0	0	0	0	
		1	2	3	4	5	
							* TOTALS

ALIMENTARY SYSTEM

Liver + + + + + 5

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Thyroid Gland + + + + + 5

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

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FISCHER 344 RATS MALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	1	
		5	5	9	5	3	
	20 MG/M3						
ANIMAL ID		0	0	0	0	0	
		0	0	0	0	0	
		8	8	8	8	8	
		0	0	0	0	0	
		1	2	3	4	5	
							* TOTALS

NERVOUS SYSTEM

Brain	+	+	+	+	+		5
-------	---	---	---	---	---	--	----------

RESPIRATORY SYSTEM

Lung	+	+	+	+	+		5	
Hemorrhage	1	1	2	1	1			5 1.2
Inflammation, Acute	2	1	1	1				4 1.3
Alveolar Epithelium, Hyperplasia	2	1	2					3 1.7
Alveolus, Infiltration Cellular, Histiocyte	1	1	3	3	2			5 2.0
Bronchiole, Epithelium, Necrosis	1	1						2 1.0
Bronchiole, Epithelium, Vacuolization Cytoplasmic					2			1 2.0
Interstitial, Fibrosis			2		4			2 3.0
Nose	+	+	+	+	+		5	
Olfactory Epithelium, Atrophy	1		1		3			3 1.7
Olfactory Epithelium, Necrosis			3	3	3	2		4 2.8
Respiratory Epithelium, Metaplasia, Squamous				1	1			2 1.0
Respiratory Epithelium, Necrosis	1		1	2				3 1.3

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney	+	+	+	+	+		5
Urinary Bladder	+	+	+	+	+		5

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DAY ON TEST		0	0	0	0	0	
FISCHER 344 RATS MALE		0	0	0	0	0	
20 MG/M3		0	0	0	0	1	
ANIMAL ID		5	5	9	5	3	
		0	0	0	0	0	
		0	0	0	0	0	
		8	8	8	8	8	
		0	0	0	0	0	
		1	2	3	4	5	
							* TOTALS
Muscularis, Serosa, Edema		3					1 3.0

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DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
FISCHER 344 RATS MALE	0	0	0	0	0	
40 MG/M3	5	7	6	6	7	
ANIMAL ID	0	0	0	0	0	
	1	1	1	1	1	
0	0	0	0	0	0	
0	0	0	0	0	0	
1	2	3	4	5		
						* TOTALS

ALIMENTARY SYSTEM

Liver + + + + + 5

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Thyroid Gland + + + + + 5

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Testes + 1

HEMATOPOIETIC SYSTEM

Lymph Node + 1

Lymph Node, Bronchial + 1

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

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FISCHER 344 RATS MALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		5	7	6	6	7	
		0	0	0	0	0	
40 MG/M3	ANIMAL ID	0	0	0	0	0	
		1	1	1	1	1	
		0	0	0	0	0	
		0	0	0	0	0	
		1	2	3	4	5	

* TOTALS

NONE

NERVOUS SYSTEM

Brain	+	+	+	+	+	5	
Hemorrhage					1		1 1.0

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	5	
Hemorrhage	3	4	2	3	3		5 3.0
Inflammation, Acute	2	2	2	2	2		5 2.0
Alveolar Epithelium, Hyperplasia	1	3	1	1	1		5 1.4
Alveolus, Infiltration Cellular, Histiocyte	1	1	2	1	1		5 1.2
Bronchiole, Epithelium, Necrosis		1	1		1		3 1.0
Nose	+	+	+	+	+	5	
Olfactory Epithelium, Atrophy	1	2			2		3 1.7
Olfactory Epithelium, Necrosis	3	3	3	3	3		5 3.0
Respiratory Epithelium, Metaplasia, Squamous					1		1 1.0
Respiratory Epithelium, Necrosis	1	2	1	1	2		5 1.4

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney	+	+	+	+	+	5	
--------	---	---	---	---	---	---	--

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Lab: BNW

		0	0	0	0	0	
FISCHER 344 RATS MALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		5	7	6	6	7	
	40 MG/M3						
ANIMAL ID		0	0	0	0	0	
		1	1	1	1	1	
		0	0	0	0	0	
		0	0	0	0	0	
		1	2	3	4	5	
							* TOTALS
Urinary Bladder		+	+	+	+	+	5

*** END OF MALE DATA ***

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+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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FISCHER 344 RATS FEMALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		6	6	6	6	6	
CONTROL	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		0	0	0	0	0	
		1	2	3	4	5	
* TOTALS							

ALIMENTARY SYSTEM

Liver + + + + + **5**

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Thyroid Gland + + + + + **5**

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue
 X .. Lesion present A .. Autolysis precludes evaluation
 I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 60311 - 01

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cobalt

CAS Number: 7440-48-4

Date Report Requested: 09/13/2016

Time Report Requested: 11:25:33

First Dose M/F: 08/02/04 / 08/02/04

Lab: BNW

FISCHER 344 RATS FEMALE	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		1	1	1	1	1
		6	6	6	6	6
	CONTROL					
ANIMAL ID		0	0	0	0	0
		0	0	0	0	0
		1	1	1	1	1
		0	0	0	0	0
		1	2	3	4	5
* TOTALS						

NERVOUS SYSTEM

Brain	+	+	+	+	+	5
-------	---	---	---	---	---	----------

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	5
------	---	---	---	---	---	----------

Nose	+	+	+	+	+	5
------	---	---	---	---	---	----------

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney	+	+	+	+	+	5
--------	---	---	---	---	---	----------

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 60311 - 01
 Test Type: 14-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Cobalt
 CAS Number: 7440-48-4

Date Report Requested: 09/13/2016
 Time Report Requested: 11:25:33
 First Dose M/F: 08/02/04 / 08/02/04
 Lab: BNW

FISCHER 344 RATS FEMALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		6	6	6	6	6	
2.5 MG/M3	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		3	3	3	3	3	
		0	0	0	0	0	
		1	2	3	4	5	
* TOTALS							

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 60311 - 01
 Test Type: 14-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Cobalt
 CAS Number: 7440-48-4

Date Report Requested: 09/13/2016
 Time Report Requested: 11:25:33
 First Dose M/F: 08/02/04 / 08/02/04
 Lab: BNW

FISCHER 344 RATS FEMALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		6	6	6	6	6	
		0	0	0	0	0	
2.5 MG/M3	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		3	3	3	3	3	
		0	0	0	0	0	
		1	2	3	4	5	

*** TOTALS**

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	5	
Bronchiole, Epithelium, Necrosis			1				1 1.0
Bronchiole, Epithelium, Vacuolization Cytoplasmic	1	1		1	1		4 1.0
Nose	+	+	+	+	+	5	
Olfactory Epithelium, Atrophy	2	2	2	2	1		5 1.8
Olfactory Epithelium, Necrosis	1	1	1	1	1		5 1.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 60311 - 01
 Test Type: 14-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Cobalt
 CAS Number: 7440-48-4

Date Report Requested: 09/13/2016
 Time Report Requested: 11:25:33
 First Dose M/F: 08/02/04 / 08/02/04
 Lab: BNW

FISCHER 344 RATS FEMALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		6	6	6	6	6	
		0	0	0	0	0	
5 MG/M3	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		5	5	5	5	5	
		0	0	0	0	0	
		1	2	3	4	5	
* TOTALS							

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node	+	1
------------	---	---

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 60311 - 01
 Test Type: 14-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Cobalt
 CAS Number: 7440-48-4

Date Report Requested: 09/13/2016
 Time Report Requested: 11:25:33
 First Dose M/F: 08/02/04 / 08/02/04
 Lab: BNW

FISCHER 344 RATS FEMALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		6	6	6	6	6	
		0	0	0	0	0	
5 MG/M3	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		5	5	5	5	5	
		0	0	0	0	0	
		1	2	3	4	5	
							* TOTALS

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Lung	+	+	+	+	+		5	
Bronchiole, Epithelium, Necrosis			1					1 1.0
Bronchiole, Epithelium, Vacuolization Cytoplasmic	1	1	1	1	1			5 1.0
Nose	+	+	+	+	+		5	
Olfactory Epithelium, Atrophy	2	2	2	2	2			5 2.0
Olfactory Epithelium, Necrosis	1	1	1					3 1.0
Respiratory Epithelium, Atrophy			2					1 2.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 60311 - 01
 Test Type: 14-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Cobalt
 CAS Number: 7440-48-4

Date Report Requested: 09/13/2016
 Time Report Requested: 11:25:33
 First Dose M/F: 08/02/04 / 08/02/04
 Lab: BNW

FISCHER 344 RATS FEMALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		6	6	6	6	6	
10 MG/M3	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		7	7	7	7	7	
		0	0	0	0	0	
		1	2	3	4	5	
* TOTALS							

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 60311 - 01
 Test Type: 14-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Cobalt
 CAS Number: 7440-48-4

Date Report Requested: 09/13/2016
 Time Report Requested: 11:25:33
 First Dose M/F: 08/02/04 / 08/02/04
 Lab: BNW

FISCHER 344 RATS FEMALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		6	6	6	6	6	
	10 MG/M3						
ANIMAL ID		0	0	0	0	0	
		0	0	0	0	0	
		7	7	7	7	7	
		0	0	0	0	0	
		1	2	3	4	5	
							* TOTALS

NERVOUS SYSTEM

Brain + + + + + 5

RESPIRATORY SYSTEM

Lung + + + + + 5
 Bronchiole, Epithelium, Necrosis 1 1 1 1 4 1.0
 Bronchiole, Epithelium, Vacuolization 2 1 2 2 2 5 1.8
 Cytoplasmic
 Interstitium, Fibrosis 1 1 1 1 4 1.0

Nose + + + + + 5
 Olfactory Epithelium, Atrophy 2 2 2 2 2 5 2.0
 Olfactory Epithelium, Necrosis 1 1 1 1 1 5 1.0
 Respiratory Epithelium, Atrophy 2 2 2 2.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue
 X .. Lesion present A .. Autolysis precludes evaluation
 I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 60311 - 01
 Test Type: 14-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Cobalt
 CAS Number: 7440-48-4

Date Report Requested: 09/13/2016
 Time Report Requested: 11:25:33
 First Dose M/F: 08/02/04 / 08/02/04
 Lab: BNW

FISCHER 344 RATS FEMALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		0	1	1	0	1	
		5	6	6	7	3	
	20 MG/M3						
ANIMAL ID		0	0	0	0	0	
		0	0	0	0	0	
		9	9	9	9	9	
		0	0	0	0	0	
		1	2	3	4	5	
							* TOTALS

ALIMENTARY SYSTEM

Liver + + + + + **5**

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Thyroid Gland + + + + + **5**

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 60311 - 01
 Test Type: 14-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Cobalt
 CAS Number: 7440-48-4

Date Report Requested: 09/13/2016
 Time Report Requested: 11:25:33
 First Dose M/F: 08/02/04 / 08/02/04
 Lab: BNW

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
FISCHER 344 RATS FEMALE	0	1	1	0	1	
	5	6	6	7	3	
	<hr/>					
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	9	9	9	9	9	
	0	0	0	0	0	
	1	2	3	4	5	

* TOTALS

NERVOUS SYSTEM

Brain	+	+	+	+	+		5	
Hemorrhage	3				1			2 2.0

RESPIRATORY SYSTEM

Lung	+	+	+	+	+		5	
Hemorrhage	2			3	1			3 2.0
Inflammation, Acute	1			1				2 1.0
Alveolar Epithelium, Hyperplasia	1			1				2 1.0
Alveolus, Infiltration Cellular, Histiocyte	2	2	2	2	2			5 2.0
Bronchiole, Epithelium, Necrosis	1	1		1				3 1.0
Bronchiole, Epithelium, Vacuolization Cytoplasmic		2	2		1			3 1.7
Interstitial, Fibrosis		3	3		3			3 3.0
Nose	+	+	+	+	+		5	
Foreign Body		X						1
Olfactory Epithelium, Atrophy	2	3	3		3			4 2.8
Olfactory Epithelium, Metaplasia, Squamous			1					1 1.0
Olfactory Epithelium, Necrosis	3	1	2	3	1			5 2.0
Respiratory Epithelium, Atrophy			3					1 3.0
Respiratory Epithelium, Metaplasia, Squamous		1						1 1.0
Respiratory Epithelium, Necrosis	2	1	1	2	1			5 1.4

SPECIAL SENSES SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 60311 - 01

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cobalt

CAS Number: 7440-48-4

Date Report Requested: 09/13/2016

Time Report Requested: 11:25:33

First Dose M/F: 08/02/04 / 08/02/04

Lab: BNW

FISCHER 344 RATS FEMALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		0	1	1	0	1	
		5	6	6	7	3	
	20 MG/M3						
ANIMAL ID		0	0	0	0	0	
		0	0	0	0	0	
		9	9	9	9	9	
		0	0	0	0	0	
		1	2	3	4	5	
							* TOTALS

URINARY SYSTEM

Kidney	+	+	+	+	+	
--------	---	---	---	---	---	--

5

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 60311 - 01
 Test Type: 14-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Cobalt
 CAS Number: 7440-48-4

Date Report Requested: 09/13/2016
 Time Report Requested: 11:25:33
 First Dose M/F: 08/02/04 / 08/02/04
 Lab: BNW

		0	0	0	0	0	
DAY ON TEST		0	0	0	0	0	
FISCHER 344 RATS FEMALE		0	0	0	0	0	
40 MG/M3		6	5	6	6	7	
ANIMAL ID		0	0	0	0	0	
		1	1	1	1	1	
		1	1	1	1	1	
		0	0	0	0	0	
		1	2	3	4	5	
							* TOTALS

ALIMENTARY SYSTEM

Liver + + + + + 5

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Thyroid Gland + + + M + 4

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 60311 - 01
 Test Type: 14-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Cobalt
 CAS Number: 7440-48-4

Date Report Requested: 09/13/2016
 Time Report Requested: 11:25:33
 First Dose M/F: 08/02/04 / 08/02/04
 Lab: BNW

DAY ON TEST		0	0	0	0	0	
FISCHER 344 RATS FEMALE		0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		6	5	6	6	7	
		0	0	0	0	0	
ANIMAL ID		0	0	0	0	0	
40 MG/M3		1	1	1	1	1	
		1	1	1	1	1	
		0	0	0	0	0	
		1	2	3	4	5	
							* TOTALS

NERVOUS SYSTEM

Brain	+	+	+	+	+				5	
Hemorrhage	2					2				2 2.0

RESPIRATORY SYSTEM

Lung	+	+	+	+	+				5	
Hemorrhage	3	2	3	3	3					5 2.8
Inflammation, Acute	2	1	1	2	1					5 1.4
Alveolar Epithelium, Hyperplasia	1		1							2 1.0
Alveolus, Infiltration Cellular, Histiocyte	2	1	1	2	3					5 1.8
Bronchiole, Epithelium, Necrosis	1	1		1						3 1.0
Nose	+	+	+	+	+				5	
Inflammation, Acute			1							1 1.0
Olfactory Epithelium, Atrophy								2		1 2.0
Olfactory Epithelium, Metaplasia, Squamous								1		1 1.0
Olfactory Epithelium, Necrosis	3	3	3	3	3					5 3.0
Respiratory Epithelium, Necrosis	1	1	1	2	2					5 1.4
Trachea			+		+				2	

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney	+	+	+	+	+				5	
--------	---	---	---	---	---	--	--	--	----------	--

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 60311 - 01

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cobalt

CAS Number: 7440-48-4

Date Report Requested: 09/13/2016

Time Report Requested: 11:25:33

First Dose M/F: 08/02/04 / 08/02/04

Lab: BNW

		0	0	0	0	0	
DAY ON TEST		0	0	0	0	0	
FISCHER 344 RATS FEMALE		0	0	0	0	0	
40 MG/M3		6	5	6	6	7	
ANIMAL ID		0	0	0	0	0	
		1	1	1	1	1	
		1	1	1	1	1	
		0	0	0	0	0	
		1	2	3	4	5	
							* TOTALS
Urinary Bladder		+ +					2

*** END OF REPORT ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked